

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1058106

Luminaire Tested: S122RDR-S675D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-57)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S675D950-X4F0-XX-UDD-BVL-W
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

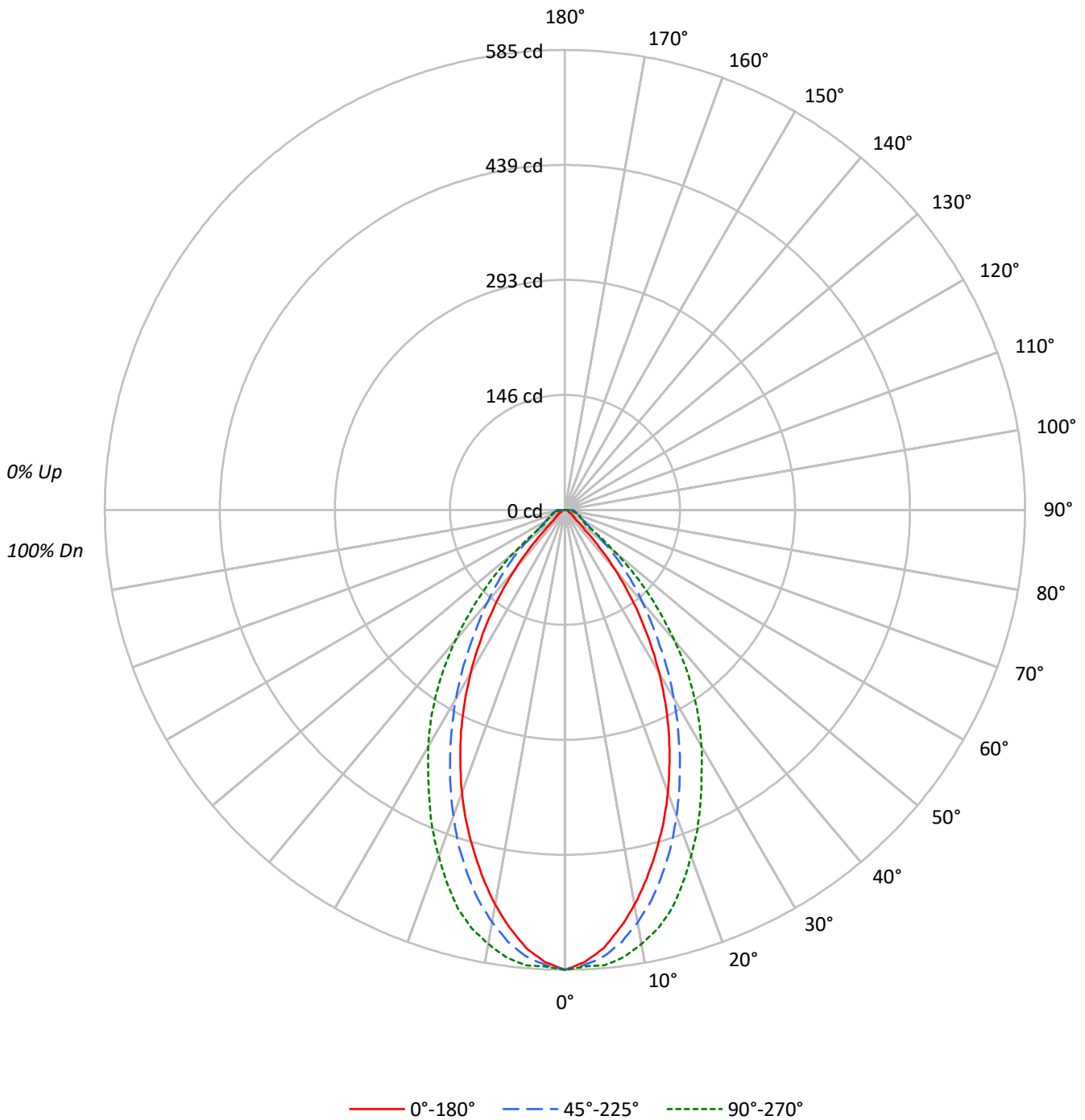
Lumens per Lamp: N/A
Luminaire Lumens: 636.8 lumens
Efficiency: N/A
Efficacy: 24.7 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.96 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1058106

CATALOG NUMBER: S122RDR-S675D950-X4F0-XX-UDD-BVL-W

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									20
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90																												
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81																												
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	74																												
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67																												
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61																												
6	82	72	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56																												
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52																												
8	73	62	55	51	72	62	55	51	60	54	50	59	54	50	58	53	50	48																												
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45																												
10	66	55	48	44	64	54	48	44	53	48	44	53	47	43	52	47	43	42																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10795	10795	10795
5°	10369	10560	10767
10°	9560	9979	10506
15°	8566	9156	10031
20°	7519	8143	9210
25°	6365	7032	8309
30°	5105	5904	7400
35°	3775	4724	6411
40°	2368	3698	5208
45°	929	2784	3860
50°	456	1880	2365
55°	360	1235	1055
60°	277	1000	967
65°	205	939	939
70°	254	960	960
75°	264	1069	998
80°	393	1392	1095
85°	783	2371	1588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 87.5°
 Luminance: 4357 cd/sqm



TEST NUMBER: P1058106

CATALOG NUMBER: S122RDR-S675D950-X4F0-XX-UDD-BVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	8.4
10°-20°	135.1	21.2
20°-30°	161.6	25.4
30°-40°	136.0	21.4
40°-50°	77.4	12.2
50°-60°	30.5	4.8
60°-70°	19.2	3.0
70°-80°	14.3	2.2
80°-90°	9.1	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	350.1	55.0
0°-40°	486.2	76.3
0°-60°	594.2	93.3
0°-90°	636.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	636.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	585	585	585	585	585	
5°	560	572	570	577	581	52
15°	448	464	479	507	525	125
25°	313	327	345	381	408	142
35°	168	182	210	255	285	104
45°	36	63	107	134	148	34
55°	11	24	38	39	33	10
65°	5	22	22	21	22	5
75°	4	15	15	14	14	4
85°	4	10	11	10	8	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	585.0	585.0	585.0	585.0	585.0
2.5°	575.7	586.0	579.4	580.4	581.3
5°	559.8	571.9	570.1	576.6	581.3
7.5°	536.4	549.5	554.2	565.4	573.8
10°	510.2	525.1	532.6	550.4	560.7
12.5°	480.2	497.1	508.3	530.8	545.7
15°	448.4	464.3	479.3	507.4	525.1
17.5°	416.6	432.5	448.4	479.3	498.0
20°	382.9	397.8	414.7	447.4	469.0
22.5°	347.3	363.2	380.0	413.7	440.0
25°	312.6	326.7	345.4	381.0	408.1
27.5°	276.1	290.2	310.8	347.3	376.3
30°	239.6	253.7	277.1	314.5	347.3
32.5°	203.1	218.1	243.4	284.6	317.3
35°	167.6	182.5	209.7	254.6	284.6
37.5°	132.9	149.8	179.7	223.7	251.8
40°	98.3	117.9	153.5	192.8	216.2
42.5°	65.5	89.9	129.2	161.9	181.6
45°	35.6	62.7	106.7	133.9	147.9
47.5°	19.7	40.3	85.2	106.7	115.1
50°	15.9	28.1	65.5	81.4	82.4
52.5°	13.1	25.3	48.7	58.0	53.4
55°	11.2	24.3	38.4	39.3	32.8
57.5°	9.4	23.4	31.8	28.1	28.1
60°	7.5	23.4	27.1	25.3	26.2
62.5°	5.6	23.4	24.3	22.5	23.4
65°	4.7	21.5	21.5	20.6	21.5
67.5°	4.7	19.7	19.7	18.7	19.7
70°	4.7	18.7	17.8	17.8	17.8
72.5°	3.7	16.8	16.8	15.9	15.9
75°	3.7	15.0	15.0	14.0	14.0
77.5°	3.7	14.0	14.0	13.1	12.2
80°	3.7	12.2	13.1	12.2	10.3
82.5°	3.7	11.2	12.2	11.2	8.4
85°	3.7	10.3	11.2	10.3	7.5
87.5°	2.8	10.3	10.3	8.4	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)